

Avian and Bat Issues in Wind Areas Research Scoping Workshop November 2, 2006

Kelly Birkinshaw, Manager
Public Interest Energy Research Program –
Environmental Area





The Energy Commission Research Program is Solutions-Focused

Mission:

Provide advanced energy innovations in hardware, software, systems, exploratory concepts, supporting knowledge, and balanced portfolio of near, mid, long-term energy options for a sustainable energy future in California





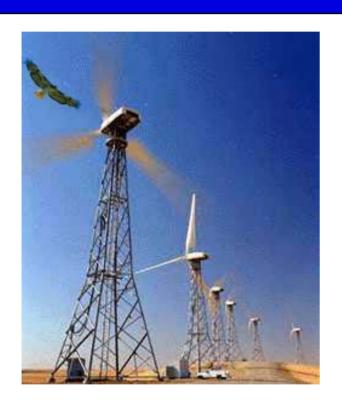
Environmental Research Provides Information to Inform Policy

- Environmental research is focused on developing cost-effective approaches to evaluating and resolving environmental effects of energy production, delivery and use in California
- Must advance science or technology
- Not intended to fulfill permit and mitigation requirements





Research will Compliment Efforts to Establish Statewide Guidelines



- Research coordinated but independent of guideline development
- Research results will be valuable for future revisions/updates





Provide Empirical Foundation for Guidelines, Monitoring, and Mitigation

R&D Committee Allocated \$1M Program for 2006/07

Goal:

 Inform wind siting/permitting guideline policy and stakeholders.

Objectives:

- Facilitate appropriate siting of wind development
- Improve methods and metrics
- Assess effectiveness of mitigation measures





Roadmap Process Establishes Research Agenda

Roadmap Objectives:

- Provide a forum for stakeholders to participate that includes:
 - Assist in developing the research scope
 - Comment on draft roadmap
- Relative to selected issues, identify gaps in ongoing research
- Facilitate collaborations with other research institutions, agencies, and operators
- Define short, mid, and long-term goals, timeframes, budgets, and activities
- Balance timeframes, risk, and provide the greatest public benefit



A Limited Budget Requires Prioritizing the Research Agenda

Workshop Goal:

Identify and prioritize research topics critical towards establishing a scientific framework for siting wind energy in California.





Proposed Timeline for Developing Roadmap

- September: Staff engaged in guideline development, reviewed literature, consulted experts to develop draft list of research topics
- September: Prepared a draft list of research needs and distributed on September 29, 2006
- Present: Scoping Workshop to add, delete, and prioritize research topics
- January: Release Draft Roadmap
- February: Workshop
- March: Final Roadmap
- 3rd Q 07: Begin Research





Contact Information

Linda Spiegel

lspiegel@energy.state.ca.us (916) 654-4703

Melinda Dorin

mdorin@energy.state.ca.us (916) 654-4024

Kelly Birkinshaw

kbirkins@energy.state.ca.us (916) 654-4542

